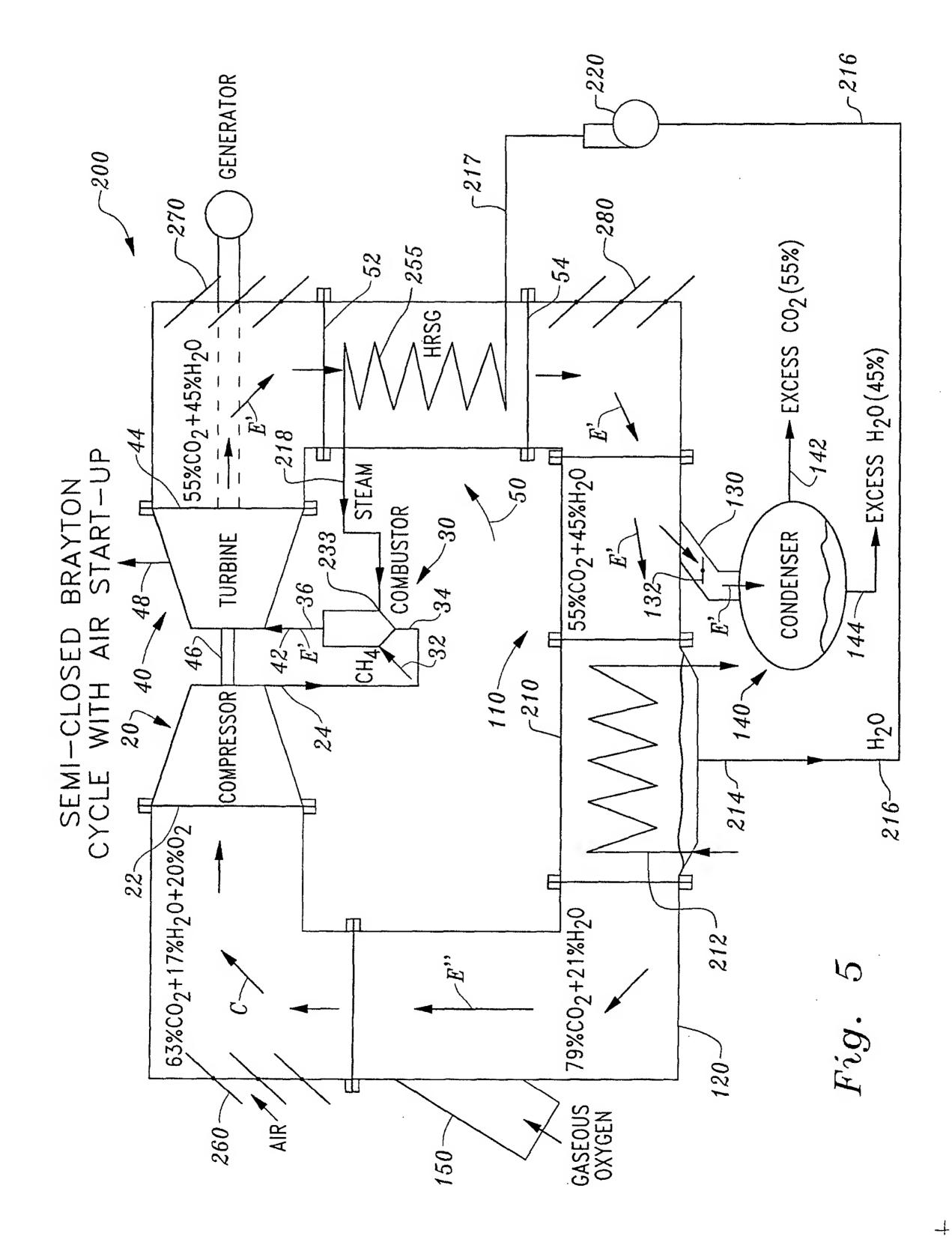
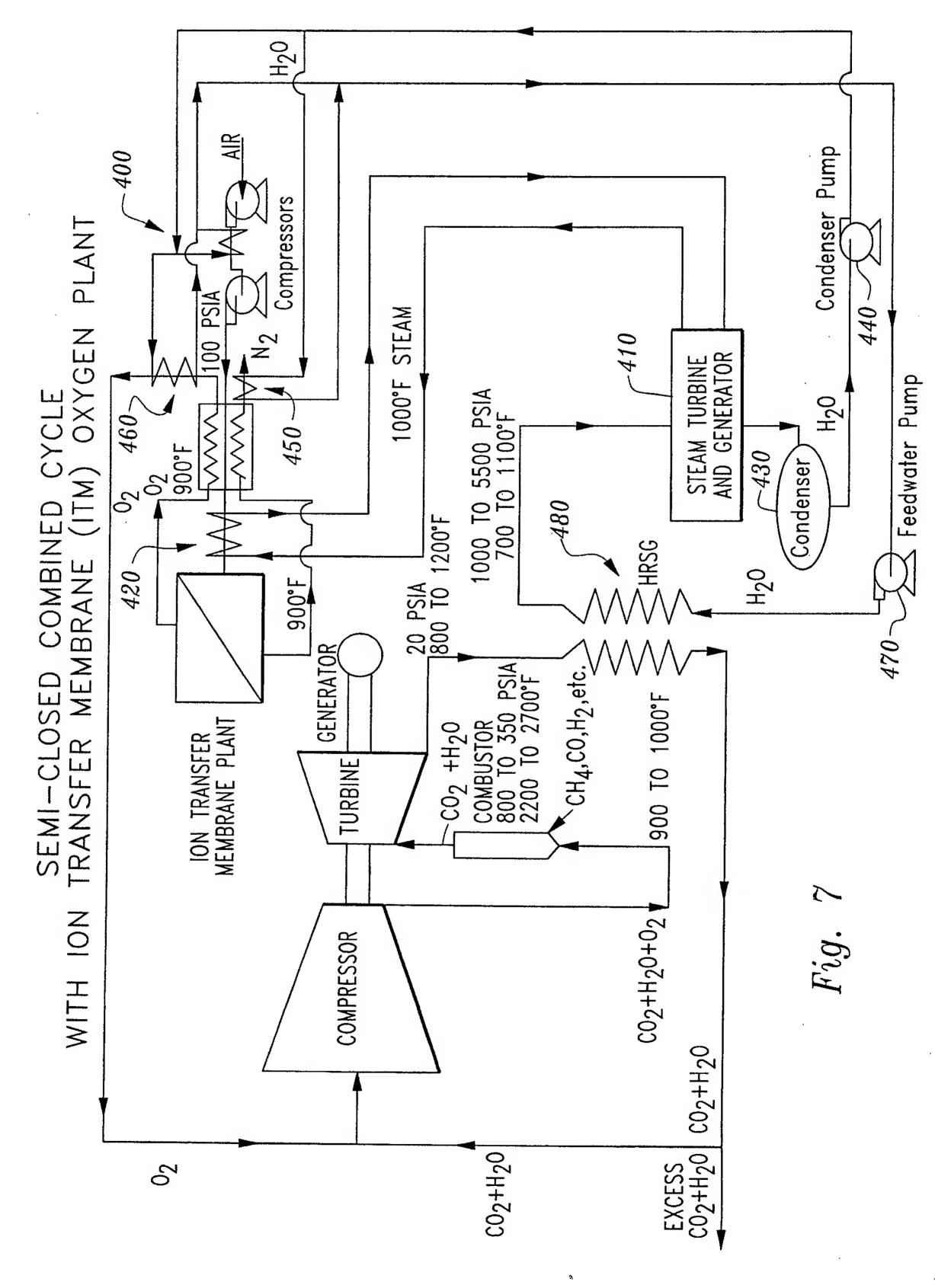


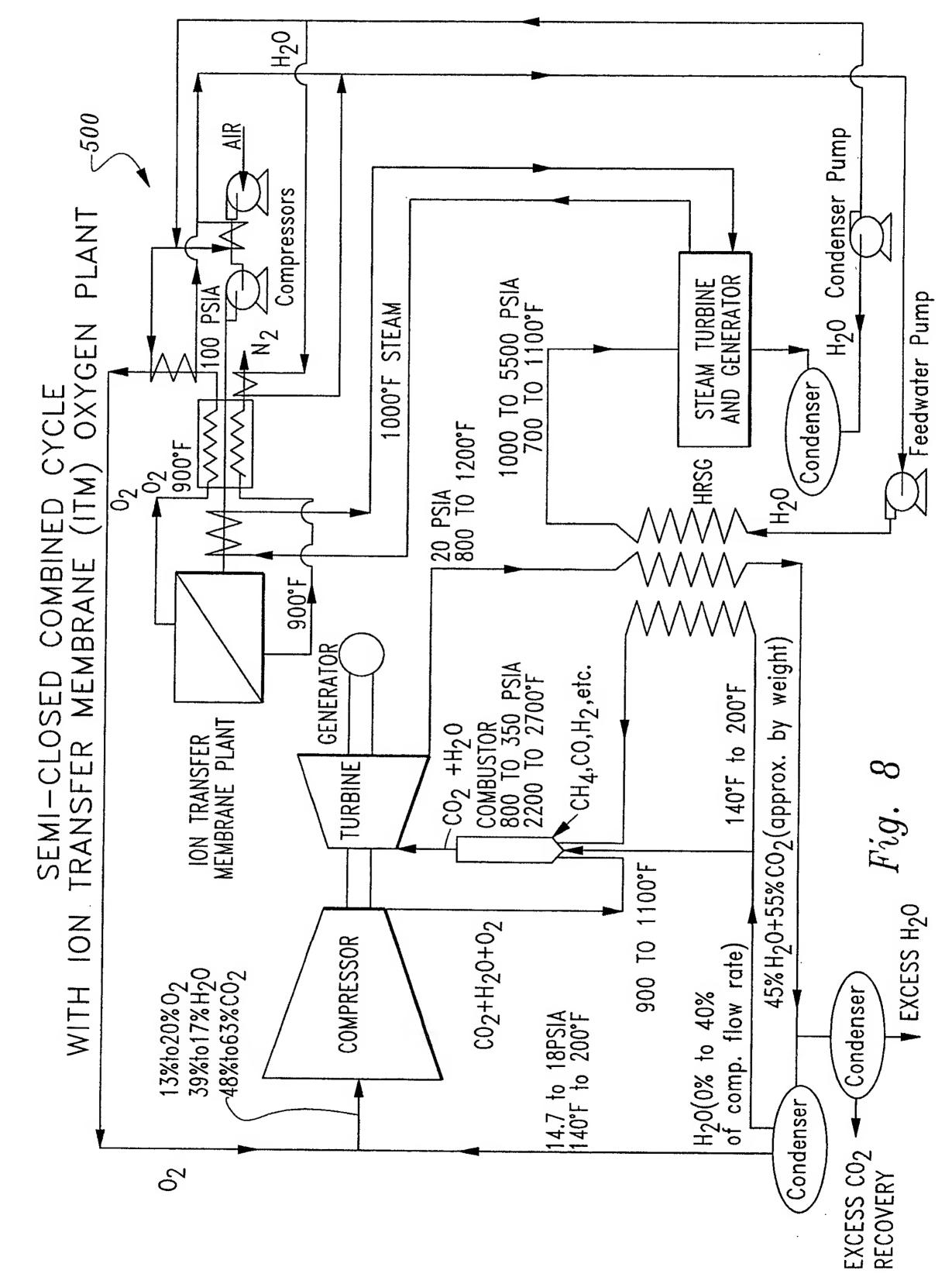
Fig. 4

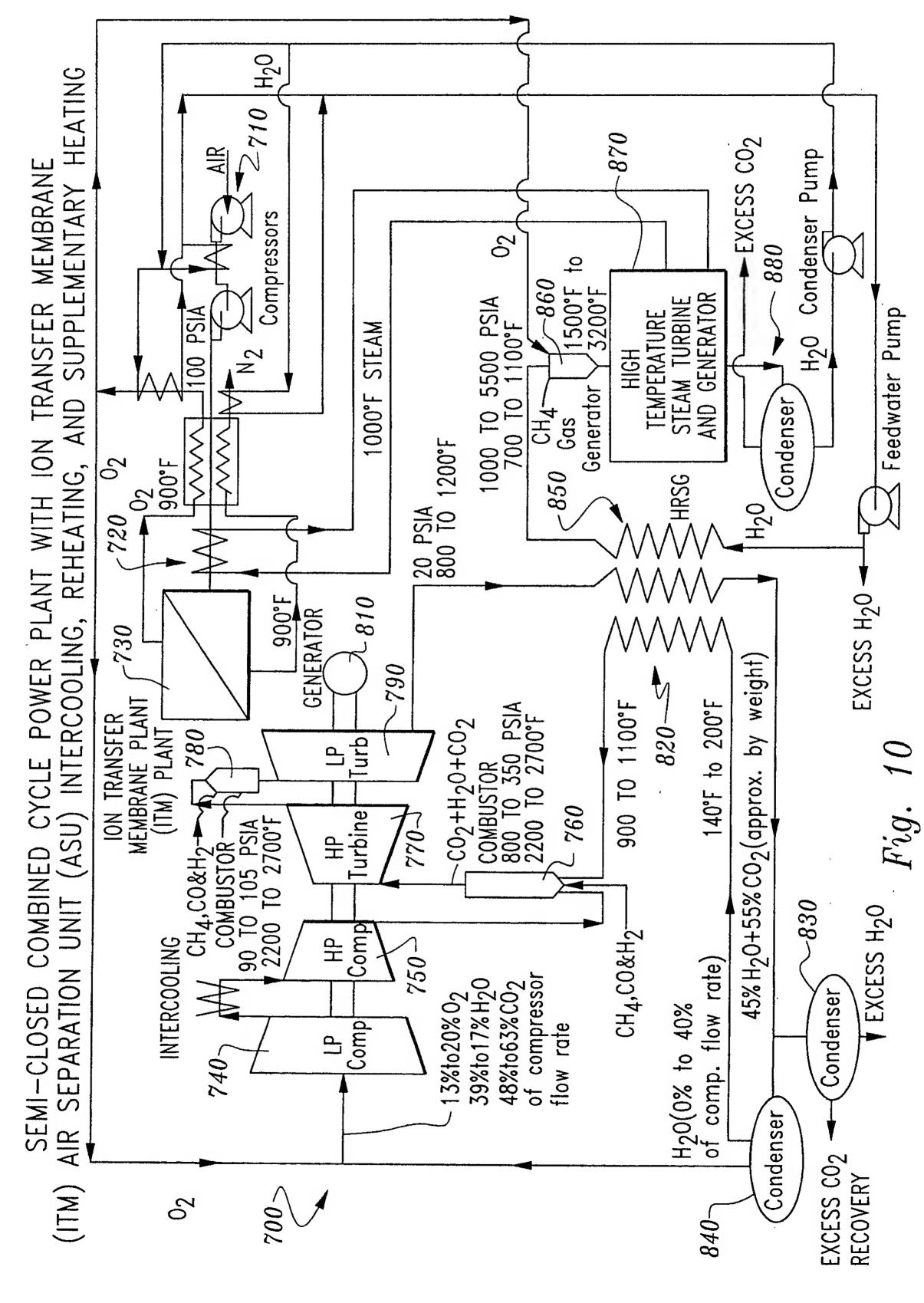
4



H<sub>2</sub>0 .310 AIR Compressors SEMI-CLOSED SIMPLE CYCLE POWER PLANT WITH TRANSFER MEMBRANE (ITM) AIR SEPARATION UNIT (ASU) Fig. 6 300 380 02 |900°F 320 20 PSIA 800 TO 1200°F 370 900°F ASU GENERATOR COMBUSTOR 800 TO 350 PSIA 2200 TO 2700°F 1000°F ~ ION TRANSFER MEMBRANE PLANT 200°F by weight) +H<sub>2</sub>0 330 140°F to TURBINE 900 TO -c02 360-45% H<sub>2</sub>0+55% CO<sub>2</sub> (approx. -340 EXCESS H20 390 350of comp. flow rate) COMPRESSOR CH4,CO,H2,etc. 48%to63%C02 Of Compressor Flow Rate 13%to20%0<sub>2</sub> 39%to17%H<sub>2</sub>0 Condenser H<sub>2</sub>0(0% to 40% 14.7 to 18PSIA 140°F to 200°F Condenser EXCESS CO2 RECOVERY 395







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E COMBINED CYCLE SUPPLEMENTARY HEATING GAS TURBIN SCHEMATIC WITH

